

#41

OIPE

## RAW SEQUENCE LISTING

DATE: 08/14/2001

PATENT APPLICATION: US/09/844,353A

TIME: 09:04:56

Input Set : A:\00786.351005.SEQLIST.TXT

Output Set: N:\CRF3\08142001\I844353A.raw

ENTERED

4 <110> APPLICANT: Ruvkun, Gary  
5 Kimura, Koutarou  
6 Patterson, Garth  
7 Ogg, Scott  
8 Paradis, Suzanne  
9 Tissenbaum, Heidi  
10 Morris, Jason  
11 Koweeek, Allison  
13 <120> TITLE OF INVENTION: THERAPEUTIC AND DIAGNOSTIC TOOLS FOR  
14 IMPAIRED GLUCOSE TOLERANCE CONDITIONS  
17 <130> FILE REFERENCE: 00786/351005  
19 <140> CURRENT APPLICATION NUMBER: US 09/844,353A  
20 <141> CURRENT FILING DATE: 2001-04-27  
22 <150> PRIOR APPLICATION NUMBER: US 08/857,076  
23 <151> PRIOR FILING DATE: 1997-05-15  
25 <160> NUMBER OF SEQ ID NOS: 114  
27 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
29 <210> SEQ ID NO: 1  
30 <211> LENGTH: 20  
31 <212> TYPE: DNA  
32 <213> ORGANISM: Artificial Sequence ✓  
34 <220> FEATURE:  
35 <223> OTHER INFORMATION: Primer/probe derived from C. elegans ✓  
37 <400> SEQUENCE: 1  
38 cgctacggca aaaaagtga 20  
40 <210> SEQ ID NO: 2  
41 <211> LENGTH: 18  
42 <212> TYPE: DNA  
43 <213> ORGANISM: Artificial Sequence  
45 <220> FEATURE:  
46 <223> OTHER INFORMATION: Primer/probe derived from C. elegans ✓  
48 <400> SEQUENCE: 2  
49 cgatgatgaa gatacccc 18  
51 <210> SEQ ID NO: 3  
52 <211> LENGTH: 20  
53 <212> TYPE: DNA  
54 <213> ORGANISM: Artificial Sequence  
56 <220> FEATURE:  
57 <223> OTHER INFORMATION: Primer/probe derived from C. elegans ✓  
59 <400> SEQUENCE: 3  
60 tgatgcgaac ggcgatgat 20  
62 <210> SEQ ID NO: 4  
63 <211> LENGTH: 20  
64 <212> TYPE: DNA  
65 <213> ORGANISM: Artificial Sequence  
67 <220> FEATURE:  
68 <223> OTHER INFORMATION: Primer/probe derived from C. elegans ✓

## RAW SEQUENCE LISTING

DATE: 08/14/2001

PATENT APPLICATION: US/09/844,353A

TIME: 09:04:56

Input Set : A:\00786.351005.SEQLIST.TXT

Output Set: N:\CRF3\08142001\I844353A.raw

```

70 <400> SEQUENCE: 4
71 acgctggatc atctacatta 20
73 <210> SEQ ID NO: 5
74 <211> LENGTH: 22
75 <212> TYPE: DNA
76 <213> ORGANISM: Artificial Sequence
78 <220> FEATURE:
79 <223> OTHER INFORMATION: Primer/probe derived from C. elegans ✓
81 <400> SEQUENCE: 5
82 ggtttaatta cccaagtttg ag 22
84 <210> SEQ ID NO: 6
85 <211> LENGTH: 20
86 <212> TYPE: DNA
87 <213> ORGANISM: Artificial Sequence
89 <220> FEATURE:
90 <223> OTHER INFORMATION: Primer/probe derived from C. elegans ✓
92 <400> SEQUENCE: 6
93 gctcacgggt cacacaacga 20
95 <210> SEQ ID NO: 7
96 <211> LENGTH: 20
97 <212> TYPE: DNA
98 <213> ORGANISM: Artificial Sequence
100 <220> FEATURE:
101 <223> OTHER INFORMATION: Primer/probe derived from C. elegans ✓
103 <400> SEQUENCE: 7
104 tgatgcgaac ggcgatcgat 20
106 <210> SEQ ID NO: 8
107 <211> LENGTH: 21
108 <212> TYPE: DNA
109 <213> ORGANISM: Artificial Sequence
111 <220> FEATURE:
112 <223> OTHER INFORMATION: Primer/probe derived from C. elegans ✓
114 <400> SEQUENCE: 8
115 tgagggccaa ctaaagaaga c 21
117 <210> SEQ ID NO: 9
118 <211> LENGTH: 20
119 <212> TYPE: DNA
120 <213> ORGANISM: Artificial Sequence
122 <220> FEATURE:
123 <223> OTHER INFORMATION: Primer/probe derived from C. elegans ✓
125 <400> SEQUENCE: 9
126 cgctacggca aaaaagtgaa 20
128 <210> SEQ ID NO: 10
129 <211> LENGTH: 20
130 <212> TYPE: DNA
131 <213> ORGANISM: Artificial Sequence
133 <220> FEATURE:
134 <223> OTHER INFORMATION: Primer/probe derived from C. elegans ✓
136 <400> SEQUENCE: 10

```

## RAW SEQUENCE LISTING

DATE: 08/14/2001

PATENT APPLICATION: US/09/844,353A

TIME: 09:04:56

Input Set : A:\00786.351005.SEQLIST.TXT

Output Set: N:\CRF3\08142001\I844353A.raw

```

137 gacgatcccg aggtgagtat 20
139 <210> SEQ ID NO: 11 ✓
140 <211> LENGTH: 5816 ✓
141 <212> TYPE: DNA
142 <213> ORGANISM: Caenorhabditis elegans
144 <220> FEATURE:
145 <221> NAME/KEY: misc_feature ✓
146 <222> LOCATION: (1)...(5816) ✓
147 <223> OTHER INFORMATION: n = A,T,C or G
149 <400> SEQUENCE: 11
150 ggtttaatta cccaagtttg agctccaaga gcacacatct gatcgtcgga ttctactgta 60
151 ctccccgaaa aaccaacaaa aaacacaagt ttttgaacac ttgtaaatagc agacagaacg 120
152 atgacgagaa tgaatattgt cagatgtcgg agacgacaca aaattttgga aaatttggaa 180
153 gaagagaatc tcggccccgag ctgctcgtcg acgacttcaa caaccgctgc caccgaagct 240
154 ctcggaacaa ccaactgagga tatgaggctt aagcagcagc gaagctcgtc gcgtgccacg 300
155 gagcacgata ttgtcgacgg caatcaccac gacgacgagc acatcacaaat gagacggctt 360
156 cgacttgtaaaa aaatttcgcg gacgcggcgt agaacgacgc cggattcaag tatggactgc 420
157 tatgagggaaa acccgccatc acaaaaactt caataaatta ttcttggtatt tctaaaaagt 480
158 catcaatgac gtcattaatg cttttactgc tattegcttt tgtacagccg tgtgcctcaa 540
159 tagtcgaaaa acgatgcggc ccaatcgata ttcgaaatag gccgtgggat attaaagccg 600
160 aatggtcgaa acttggtgat ccgaacgaaa aagatttggc tggtcagaga atggtcaact 660
161 gcacagtggt ggaaggttcg ctgacaatct catttgtaact gaaacacaag acaaaagcac 720
162 aagaagaaat gcatcgaagt ctacagccaa gatattccca agacgaattt atcacttttc 780
163 cgcactctacg tgaaattact ggaactctgc tcgtttttga gactgaagga ttagtggatt 840
164 tgcgtaaaat ttccccaaat cttcgtgtaa ttggaggccg ttcgctgatt caacactatg 900
165 cgctgataat ttatcgaaat ccggatttgg agatcggctc tgacaagctt tccgtaattc 960
166 gaaatggtgg tgtacggata atcgataatc gaaaactgtg ctacacgaaa acgattgatt 1020
167 ggaacacttt gatcacttct tccatcaacg atgttgctgt tgataatgct gccgagtagc 1080
168 ctgtcactga gactggattg atgtgcccac gtggagcttg cgaagaggat aaaggcgaat 1140
169 caaagtgtca ttatttggag gaaaagaatc aggaacaagg tgtcgaaaga gttcagagtt 1200
170 gttggtcgaa caccacttgc caaaagtctt gtgcttatga tcgtcttctt ccaacgaaag 1260
171 aaatcggacc gggatgtgat gcgaacggcg atcgatgtca cgatcaatgc gtgggcgggt 1320
172 gtgagcgtgt gaatgatgcc acagcatgcc acgcgtgcaa gaatgtctat cacaagggaa 1380
173 agtgtatcga aaagtgtgat gctcacctgt accttctcct tcaacgtcgt tgtgtgaccc 1440
174 gtgagcagtg totgcagctg aatccggtgc totcgaaaca aacagtgcct atcaaggcga 1500
175 cggcaggcct ttgctcggat aaatgtcccg atggttatca aatcaaccgg gatgatcatc 1560
176 gagaatgccg aaaatgcgtt ggcaagtgtg agattgtgtg cgagatcaat cacgtcattg 1620
177 atacgtttcc gaaggcacag gcgatcaggc tatgcaatat tattgacgga aatctgacga 1680
178 tcgagattcg cggaaaacag gattcgggaa tggcgctccga gttgaaggat atatttgca 1740
179 acattcacac gatcacggcg tacctgttgg tacgtcaatc gtcaccgttt atctcgttga 1800
180 acatgttccg gaatttacga cgtattgagg caaagtcact gttcagaaat ctatatgcta 1860
181 tcacagtttt tgaaaatccg aatttaaaaa agctattcga ttcaacgacg gatttgacgc 1920
182 ttgatcgtgg aactgtgtca attgccaata acaagatgtt atgcttcaag tatatcaagc 1980
183 agctaattgc aaagttaaata ataccactcg atccgataga tcaatcagaa gggacaaatg 2040
W--> 184 gtgagaaggn aatctgtgag gatatggcaa tcaacgtgag catcacagcg gtcaacgcgg 2100
185 actcggctct ctttagttgg ccctcattca acattaccga tatagatcag cgaaagtttc 2160
186 tcggctacga gctcttcttc aaagaagtcc cagcaatcga tgagaacatg acgatcgaag 2220
187 aggatcgaag tgcgtgtgtc gattcgtggc agagtgtctt caaacagtag tacgagacgt 2280
188 cgaacggtga accgaccccg gacattttta tggatatttg accgcgcgag cgaattccgg 2340

```

## RAW SEQUENCE LISTING

DATE: 08/14/2001

PATENT APPLICATION: US/09/844,353A

TIME: 09:04:56

Input Set : A:\00786.351005.SEQLIST.TXT

Output Set: N:\CRF3\08142001\I844353A.raw

```

189 cgaatacgcct ctacgcgtac tatgtggcga cgcagatggt gttgcatgcc ggtgcgaaga 2400
190 acggtgtatc gaagattggt tttgtgagga cgagctacta tacgcctgat cctccgacgt 2460
191 tggcactagc gcaagtcgat tcggacgcta ttcattattac gtgggaagcg ccgctccaac 2520
192 cgaacggaga cctcacgcat tacacaatta tgtggcgtga gaatgaagt agcccgtacg 2580
193 aggaagccga aaagttttgt acagatgcaa gacccccgc aaatcgacaa cgcacgaaag 2640
194 atccgaaaga gacgattgta gccgataagc cagtcgatat tccgtcatca cgtaccgtag 2700
195 ctccgacact tttgactatg atgggtcacg aagatcagca gaaaacgtgc gctgcaacgc 2760
196 ccggttggtg ttcgtgttcg gctatcgaag aatcatcgga acagaacaag aagaagcgac 2820
197 cggatccgat gtcggcgatc gaatcatctg catttgagaa taagctgttg gatgaggttt 2880
198 taatgccgag agacacgatg cgagtgcgac gatcaattga agacgcgaat cgagtcagtg 2940
199 aagagtgtga aaaagctgaa aatttgggaa aagctccaaa aactctcgtt ggaaagaagc 3000
200 cgctgatcca ttttcgaag aagaagccgt cgagcagcag caccacatcc acaccggctc 3060
201 caacgatcgc atcaatgtat gccttaacaa ggaaaccgac tacggtgccg ggaacaagga 3120
202 ttcggctcta cgagatctac gaacctttac ccggaagctg ggcgattaat gtatcagctc 3180
203 tggcatttga taatagttat gtgatacga aatttgaagca ttacacactt tatgcgattt 3240
204 ctctatccgc gtgccaaaac atgacagtac ccggagcadc ttgctcaata tcccatcgtg 3300
205 cgggagcatt gaaacgaaca aaacacatca cagacattga taaagtgttg aatgaaacaa 3360
206 ttgaatggag atttatgaat aatagtcac aagtcacagt gacgtgggat ccaccgactg 3420
207 aagtgaatgg tggaatatto ggttatgttg taaagcttaa gtcaaaaagtc gatggatcaa 3480
208 ttgttatgac gagatgtgtc ggtgcgaaga gaggatatcc aacacggaat caggggtgtc 3540
209 tattccagaa tttggccgat ggacgttatt ttgtctcagt aacggcgacc tctgtacacg 3600
210 gcgctggacc ggaagccgaa tctccgacc caatcgtcgt catgacgcca ggcttcttca 3660
211 ctgtggaaat cattctcggc atgcttctcg tctttttgat tttaattgtca attgccggtt 3720
212 gtataatcta ctactacatt caagtacgct acggcaaaaa agtgaaagct ctatctgact 3780
213 ttatgcaatt gaatcccgaa tattgtgttg acaataagta caatgcagac gattgggagc 3840
214 tacggcagga tgatgttgtg ctccgacaac agtgtggaga gggatcattc ggaaaagtgt 3900
215 acctaggaac tggaataaat gttgtttctc tgatgggtga tcgtttcggg ccgtgtgcta 3960
216 ttaagattaa ttagatgat ccagcgtcga ctgagaatct caactatctc atggaagcta 4020
217 atattatgaa gaactttaag actaaactta tcgtccaact gtacggagtt atctctactg 4080
218 tacaaccagc gatggttgtg atggaatatga tggatcttgg aaatctccgt gactatctcc 4140
219 gatcgaaacg cgaagacgaa gtgttcaatg agacggactg caacttttcc gacataatcc 4200
220 cgagggataa attccatgag tgggcccgc acgatttgtg tggatggcg tacctggagt 4260
221 cgctcaagtt ttgccatcga gatctcgcg cagctaattg catgataaat cgggatgaga 4320
222 ctgtcaagat tggagatttc ggaatggctc gtgatctatt ctatcatgac tattataagc 4380
223 catcgggcaa gcgtatgat cctgttcgat ggatgtcacc cgagtcggtt aaagacggaa 4440
224 agtttgactc gaaatctgat gtttgagct tcggagttgt tctctatgaa atgggttacac 4500
225 tcggtgctca gccatatatt ggtttgagta atgatgaggt gttgaattat attggaatgg 4560
226 cccggaaggt tatcaagaag ccggaatgtt gtgaaaacta ttggtataag tgatgaaaa 4620
227 tgtgctggag atactcacct cgggatcgtc cgacgttctt ccagctcgtt catcttctag 4680
228 cagctgaagc ttcaccagaa ttcggagatt tatcatttgt cctaaccgat aatcaaatga 4740
229 tccttgacga ttcagaagca ctggatcttg atgatattga tgatactgat atgaatgatc 4800
230 aggttgtcga ggtggcaccg gatgttgaga acgtcgaggt tcagagtgat tcggaacgtc 4860
231 ggaatacggg ttcaataacc ttgaaacagt ttaagacgat cctccgac aatgcgacga 4920
232 cgagtcattc gacaatatcg attgatgaga caccgatgaa agcgaagcag cgagaaggat 4980
233 cgctggatga ggagtacgca ttgatgaatc atagtggagg tccgagtgat gcggaagttc 5040
234 ggacgtatgc tgggtgatgga gattatgttg agagagatgt tcgagagaat gatgtgccaa 5100
235 cgcgacgaaa tactggtgca tcaacatcaa gttacacagg tgggtgtcca tattgcctaa 5160
236 caaatcgttg tggttcaaat gaacgaggag ccggtttcgg tgaagcagta cgattaactg 5220
237 atggtgttgg aagtggacat ttaaatgatg atgattatgt tgaaaaagag atatcatcca 5280

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/844,353A

DATE: 08/14/2001

TIME: 09:04:57

Input Set : A:\00786.351005.SEQLIST.TXT

Output Set: N:\CRF3\08142001\I844353A.raw

L:184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11

L:817 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31

L:832 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32

